## CLAIMS

1. A method for manufacturing a semiconductor device, comprising the steps of:

forming a first film pattern by discharging a conductive material with a droplet discharge method;

forming a first photosensitive material over the first film pattern;

forming a first mask pattern by irradiating a region where the first film pattern and the first photosensitive material are overlapped with a laser beam and by developing;

forming a gate electrode having a desired shape by etching the first film pattern using the first mask pattern as a mask;

forming an insulating film and a semiconductor film over the gate electrode;

forming a second photosensitive material over the semiconductor film;

forming a second mask pattern by irradiating the second photosensitive material with a laser beam and by developing;

forming a semiconductor region having a desired shape by etching the semiconductor film using the second mask pattern as a mask; and

forming a source electrode and a drain electrode to be in contact with the semiconductor region.

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2. A method for manufacturing a semiconductor device, comprising the steps of:

forming a first film pattern by discharging a conductive material with a droplet discharge method;

discharging or applying a first photosensitive material over the first film pattern;

forming a first mask pattern by irradiating a region where the first film pattern and the first photosensitive material are overlapped with a laser beam and by developing;

forming a gate electrode having a desired shape by etching the first film pattern

using a the first mask pattern as a mask;

forming an insulating film and a first semiconductor film over the gate electrode;

forming a protective film over the first semiconductor film;

forming a second semiconductor film over the first semiconductor film and the protective film;

forming a second photosensitive material over the second semiconductor film;

forming a second mask pattern by irradiating the second photosensitive material with a laser beam and by developing;

forming a semiconductor region having a desired shape by etching the first semiconductor film and the second semiconductor film using the second mask pattern as a mask; and

forming a source electrode and a drain electrode to be in contact with the semiconductor region.

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3. A method for manufacturing a semiconductor device, comprising the steps of:

forming a first film pattern by discharging a conductive material with a droplet discharge method;

forming a first photosensitive material over the first film pattern;

forming a first mask pattern by irradiating a region where the first film pattern and the first photosensitive material are overlapped with a laser beam and by developing;

forming a source electrode and a drain electrode having a desired shape by etching the first film pattern using the first mask pattern as a mask;

forming a semiconductor film over the source electrode and the drain electrode; forming a second photosensitive material over the semiconductor film;

forming a second mask pattern by irradiating the second photosensitive material with a laser beam and by developing;

forming a semiconductor region having a desired shape by etching the

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semiconductor film using the second mask pattern as a mask; and forming an insulating film and a gate electrode over the semiconductor region.

- 4. A method for manufacturing a semiconductor device, according to any one
   of claims 1 to 3, wherein the first photosensitive material and the second photosensitive material are negative photosensitive resins.
- 5. A method for manufacturing a semiconductor device, according to any one of claims 1 to 3, wherein the first photosensitive material and the second photosensitive
   material are positive photosensitive resins.
  - 6. A method for manufacturing a semiconductor device, according to any one of claims 1 to 3, wherein one of the first photosensitive material and the second photosensitive material is a negative photosensitive resin and the other is a positive photosensitive resin.
  - 7. A method for manufacturing a television set, comprising the steps of: forming a first film pattern by discharging a conductive material with a droplet discharge method;
- 20 forming a first photosensitive material over the first film pattern;

forming a first mask pattern by irradiating a region where the first film pattern and the first photosensitive material are overlapped with a laser beam and by developing;

forming a gate electrode having a desired shape by etching the first film pattern using the first mask pattern as a mask;

forming an insulating film and a semiconductor film over the gate electrode; forming a second photosensitive material over the semiconductor film;

forming a second mask pattern by irradiating the second photosensitive material with a laser beam and by developing;

forming a semiconductor region having a desired shape by etching the

semiconductor film using the second mask pattern as a mask;

forming a source electrode and a drain electrode to be in contact with the semiconductor region; and

forming a pixel electrode to be connected to the drain electrode.

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8. A method for manufacturing a television set, comprising the steps of:

forming a first film pattern by discharging a conductive material with a droplet discharge method;

forming a first photosensitive material over the first film pattern;

forming a first mask pattern by irradiating a region where the first film pattern and the first photosensitive material are overlapped with a laser beam and by developing;

forming a gate electrode having a desired shape by etching the first film pattern using the first mask pattern as a mask;

forming an insulating film and a first semiconductor film over the gate electrode;

forming a protective film over the first semiconductor film;

forming a second semiconductor film over the first semiconductor film and the protective film;

forming a second photosensitive material over the second semiconductor film;

forming a second mask pattern by irradiating the second photosensitive material with a laser beam and by developing;

forming a semiconductor region having a desired shape by etching the first semiconductor film and the second semiconductor film using the second mask pattern as a mask;

forming a source electrode and a drain electrode to be in contact with the semiconductor region; and

forming a pixel electrode to be connected to the drain electrode.

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9. A method for manufacturing a television set, comprising the steps of: forming a first film pattern by discharging a conductive material with a droplet discharge method;

forming a first photosensitive material over the first film pattern;

forming a first mask pattern by irradiating a region where the first film pattern and the first photosensitive material are overlapped with a laser beam and by developing;

forming a source electrode and a drain electrode having a desired shape by etching the first film pattern using the first mask pattern as a mask;

forming a semiconductor film over the source electrode and the drain electrode; forming a second photosensitive material over the semiconductor film;

forming a second mask pattern by irradiating the second photosensitive material with a laser beam and by developing;

forming a semiconductor region having a desired shape by etching the semiconductor film using the second mask pattern as a mask;

forming an insulating film and a gate electrode over the semiconductor region; and

forming a pixel electrode to be connected to the drain electrode.

- 20 10. A method for manufacturing a television set, according to any one of claims 7 to 9, wherein the first photosensitive material and the second photosensitive material are negative photosensitive resins.
- 11. A method for manufacturing a television set, according to any one of claims
  7 to 9, wherein the first photosensitive material and the second photosensitive material are positive photosensitive resins.
- 12. A method for rmanufacturing a television set, according to any one of claims
  7 to 9, wherein one of the first photosensitive material and the second photosensitive
  30 material is a negative photosensitive resin and the other is a positive photosensitive

resin.

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- 13. A method for manufacturing a semiconductor device, according to any one of claims 7 to 9, wherein the laser beam has any wavelength of from ultraviolet light to infrared light.
  - 14. A method for manufacturing a television set, according to any one of Claims 7 to 9, wherein the television set is a liquid crystal television or an EL television.
- 15. A method for manufacturing a semiconductor device, comprising the steps of:

forming a first film pattern by a droplet discharge method;

forming a photosensitive material over the first film pattern;

forming a mask pattern by irradiating a region where the first film pattern and the photosensitive material are overlapped with a laser beam and by developing; and

forming a second film pattern having a desired shape by etching the first film pattern using the mask pattern as a mask.

16. A method for manufacturing a semiconductor device according to claim 1,

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forming a third film pattern to be connected to the second film pattern by a droplet discharge method.

- 17. A method for manufacturing a semiconductor device according to claim 15,25 wherein the photosensitive material is a negative photosensitive resin.
  - 18. A method for manufacturing a semiconductor device according to claim 15, wherein the photosensitive material is a positive photosensitive resin.
    - 19. A method for manufacturing a semiconductor device according to claim 15,

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wherein the first film pattern is a conductive film.

- 20. A method for manufacturing a semiconductor device according to claim 15, wherein the second film pattern is at least one of a gate electrode, a source electrode, or a drain electrode.
- 21. A method for manufacturing a semiconductor device according to claim 16, wherein the third film pattern is a wiring.
- 22. A method for manufacturing a semiconductor device according to claim 15, wherein the first film pattern is a semiconductor film.
- 23. A method for manufacturing a semiconductor device according to claim 15, wherein the second film pattern has a channel formation region, source region, or adrain region.
  - 24. A method for manufacturing a semiconductor device according to claim 15, wherein the first film pattern is an insulating film.
- 25. A method for manufacturing a semiconductor device according to claim 15, wherein the second film pattern is an insulating film having an opening.
- 26. A method for manufacturing a semiconductor device, according to any one of claims 1, 2, 3, and 15, wherein the laser beam has any wavelength of from ultraviolet
   25 light to infrared light.
  - 27. A semiconductor device comprising:
    a wiring formed by a droplet discharge method; and
    an electrode connected to the wiring,

wherein the wiring has a width of 5 µm or less.

## 28. A semiconductor device comprising:

a thin film transistor provided with a gate electrode, a gate insulating film, a semiconductor region, a source electrode, and a drain electrode; and

a gate wiring connected to the gate electrode,

wherein the gate electrode has a width of 5  $\mu m$  or less and the gate wiring is formed by a droplet discharge method.

29. A television set comprising a display device including a wiring formed by a droplet discharge method and an electrode connected to the wiring, wherein the electrode has a width of 5 μm or less.

## 30. A television set comprising:

a display device including a thin film transistor with a gate electrode, a gate insulating film, a semiconductor region, a source electrode, and a drain electrode; and

a gate wiring connected to the gate electrode,

wherein the gate electrode has a width of 5  $\mu m$  or less and the gate wiring is formed by a droplet discharge method.

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31. A television set according to any one of Claims 27 to 30, wherein the television set is a liquid crystal television or an EL television.